INORGANICA CHIMICA ACTA VOLUME 216, NUMBERS 1–2, FEBRUARY, 1994

Contents

Preliminary Communications

Two silicon-bridged cyclopentadienyl Fe_2S_4 cluster units connected through an Fe(III)S_6 unit. Crystal and molecular structure of $[((CH_3)_2SiCp'_2)_2Fe_5(\mu_3\text{-}S_2)_2(\mu_4\text{-}S_2)_2(\mu_4\text{-}S_4)]FeCl_4$ 1
W. van den Berg, C.E. Boot, J.G.M. van der Linden, W.P. Bosman, J.M.M. Smits, P.T. Beurskens and J. Heck (Nijmegen, Netherlands)

$[\{Ni(3,2,3\text{-tet})(\mu\text{-}NCO)\}_n](ClO_4)_n$: structural characterization of the first monodimensional nickel(II)–cyanato system with a description of its ferromagnetic coupling 5
A. Escuer, R. Vicente, J. Ribas, M.S. El Fallah, X. Solans and M. Font-Bardia (Barcelona, Spain)

A tris-(μ_2-I) face-sharing dizirconium(III) complex, $[1,4\text{-}Zr_2I_7(PEt_3)_2]^-$; the first such dizirconium species 9
F.A. Cotton and W.A. Wojtczak (College Station, TX, USA)

Oxo- and sulfido-bridged sandwich cubane-type molybdenum–indium mixed-metal cluster. Synthesis and X-ray structure of $[(H_2O)_9Mo_3S_3OInOS_3Mo_3(H_2O)_9](CH_3\cdot C_6H_4\cdot SO_3)_8\cdot 30H_2O$ 13
G. Sakane, Y. Yao and T. Shibahara (Okayama, Japan)

Articles

Dithiocarbamates of dimethylthallium(III). Crystal structure of dimethyl(di-n-propyldithiocarbamato)thallium(III) . . . 15
J.S. Casas, M.V. Castaño, C. Freire, A. Sánchez, J. Sordo (Santiago de Compostela, Galicia, Spain), E.E. Castellano and J. Zukerman-Schpector (Sao Carlos, SP, Brazil)

Binuclear oxo-bridged iron(III) complexes of *N,N'*-bis(2-pyridylmethyl)ethane-1,2-diamine (bispicen) and related ligands 21
N. Arulsamy, P.A. Goodson, D.J. Hodgson (Laramie, WY, USA), J. Glerup and K. Michelsen (Copenhagen, Denmark)

Mixed-ligand complexes of rhenium
III. Synthesis, characterisation and structures of $[ReN(Me_2PhP)_2(mnt)]$ and $[ReN(Me_2PhP)(2,6\text{-}DMTP)(morphtcb)]$ (Me_2PhP = dimethylphenylphosphine; 2,6-$DMTP^-$ = 2,6-dimethylthiophenolate; $morphtcb^-$ = *N*-(morpholinylthiocarbonyl)benzamidinate) 31
U. Abram and S. Ritter (Tübingen, Germany)

Aggregation of platinum–uridine blue as a function of concentration in aqueous solution by small angle X-ray scattering 37
R. Serimaa, T. Laitalainen, S. Vahvaselkä and T. Paakkari (Helsinki, Finland)

Transition metal compounds of the tridentate pyrazole substituted amine ligand bis(2-(3,5-dimethyl-1-pyrazolyl)-ethyl)ethylamine (ddae). X-ray structures of $[Co(NO_3)_2(ddae)]$, $[Cu(ddae)(NO_3)(H_2O)](NO_3)$ and $[Cu(ddae)Cl_2]\cdot C_2H_5OH$ 43
W.L. Driessen, R.A.G. de Graaff, F.J. Parlevliet, J. Reedijk and R.M. de Vos (Leiden, Netherlands)

Cyclic bis(amino)organotin cations, stabilized by π-coordination and new spirocyclic stannole derivatives 51
B. Wrackmeyer, G. Kehr (Bayreuth, Germany) and S. Ali (Islamabad, Pakistan)

Unexpected five-coordination in di(1,3-diaminopropane)-3,5-dinitrobenzoatocopper(II) 3,5-dinitrobenzoate. Comparison between the coordinated and non-coordinated anions 57
M.R. Sundberg, M. Klinga and R. Uggla (Helsinki, Finland)

A polymeric two-dimensional mixed-metal network. Crystal structure and magnetic properties of $\{[P(Ph)_4][MnCr(ox)_3]\}_n$ 65
S. Decurtins, H.W. Schmalle, H.R. Oswald, A. Linden (Zurich, Switzerland), J. Ensling, P. Gütlich (Mainz, Germany) and A. Hauser (Bern, Switzerland)

Complexes of tetradentate β-keto enamine Schiff bases: an electrospray mass spectrometric study 75
T.J. Cardwell, R. Colton, S. Mitchell and J.C. Traeger (Bundoora, Australia)

Synthesis and characterization of platinum(II)–thiolate complexes. Crystal and molecular structures of *cis*-$Pt(Ph_3P)_2(SC_6H_2\text{-}2,4,6\text{-}iPr_3)Cl$ and *cis*-$Pt(Ph_3P)_2(SC_6H_2\text{-}2,4,6\text{-}iPr_3)_2$ 83
Q. Chen, F. Boeheim, J. Dabrowiak and J. Zubieta (Syracuse, NY, USA)

Bulky substituent effects on the iron(III) complexation of 1,4,7-triazacyclononane 89
J.L. Sessler, J.W. Sibert and V. Lynch (Austin, TX, USA)

Elsevier Sequoia

Cobalt chloride and phase-transfer catalyzed carbonylation of benzyl chlorides 97
I. Amer (Beer Sheva, Israel)

Structures of layered metal sulfonate salts: trends in coordination behavior of alkali, alkaline earth and transition metals 101
A.J. Shubnell, E.J. Kosnic and P.J. Squattrito (Mt. Pleasant, MI, USA)

Interaction of cyanopentaamminechromium(III) with mercuric ion. Electrochemical, spectral and preparative study of adduct formation and linkage isomerism 113
M. Rievaj, D. Bustin, J. Mocák (Bratislava, Slovakia), P. Riccieri and E. Zinato (Perugia, Italy)

EXAFS investigation on nickel substituted Cu,Zn bovine superoxide dismutase 121
S. Mangani (Siena, Italy), P.L. Orioli and P. Carloni (Florence, Italy)

Evidence of the interaction between steric and electronic influence in rhodoximes and cobaloximes. Synthesis of $pyRh(DH)_2I$ and X-ray structure of $pyRh(DH)_2Cl$, $pyCo(DH)_2Cl$ and $pyRh(DH)_2I$ 125
S. Geremia, R. Dreos, L. Randaccio, G. Tauzher (Trieste, Italy) and L. Antolini (Modena, Italy)

Dirhenium(III) complexes with *N,N*-dimethyladenine and 7-azaindole 131
A.-M. Lebuis and A.L. Beauchamp (Montreal, Que., Canada)

Octahedral μ-oxalato–nickel(II) dinuclear complexes with water and tridentate amines as blocking ligands: magnetostructural correlations 139
A. Escuer, R. Vicente, J. Ribas (Barcelona, Spain), J. Jaud and B. Raynaud (Toulouse, France)

Preparation and properties of a metal dithiolene conductor, partially oxidized salt of tetra(n-butyl)ammonium bis(5,6-dithio-benzo[*d*]-1,3-dithiole-2-thione) nickelate, $(n\text{-}Bu_4N)_{0.29}[Ni(dmbit)_2]$ 147
D.-Y. Noh, M. Mizuno (Ibaraki, Japan) and J.-H. Choy (Seoul, South Korea)

Structure and spectroscopic properties of [di(3-aminopropyl)amine-*N,N',N''*][iminodiacetato-*N,O,O'*]chromium(III) perchlorate 155
V. Subramaniam, K.-W. Lee and P.E. Hoggard (Fargo, ND, USA)

Molecular and crystal structures of *cis*-$Pt(DMSO)(C_2H_5CN)Cl_2$ and $Cl(DMSO)Pt(\mu\text{-}N(CH_3)CHO)_2Pt(DMSO)Cl$ 163
F.D. Rochon, P.-C. Kong and R. Melanson (Montreal, Que., Canada)

Diorganotin(IV) derivatives of salicylaldehydethiosemicarbazone. The crystal structure of dimethyl- and diphenyl-(salicylaldehydethiosemicarbazonato)tin(IV) 169
J.S. Casas, A. Sánchez, J. Sordo, A. Vázquez-López (Santiago de Compostela, Spain), E.E. Castellano, J. Zukerman-Schpector (Sao Carlos, Brazil), M.C. Rodríguez-Argüelles (Vigo, Spain) and U. Russo (Padua, Italy)

Ionic cluster dithiophosphinates $[Mo_3S_4(R_2PS_2)_3py_3]^+[MI_3]^-$ (M = Zn·py, Cd·py, Hg) 177
H. Diller, H. Keck, W. Kuchen and H. Wunderlich (Düsseldorf, Germany)

Crystal structure, magnetic and spectroscopic properties of the bis(dimethyl sulfoxide) adduct of tetra-μ-formato-dicopper(II), a new tetracarboxylato-bridged copper(II) dimer 185
F. Sapiña, M. Burgos, E. Escrivá, J.-V. Folgado, D. Beltrán (Burjassot, València, Spain) and P. Gómez-Romero (Bellaterra, Barcelona, Spain)

Raman and infrared spectroscopic studies of tris triphenyl phosphine chloride complexes of transition metals 191
H.G.M. Edwards, I.R. Lewis (Bradford, UK) and P.H. Turner (Coventry, UK)

Evidence of the $W(O)(S_2)_2$ core as an intermediate in the acidification of WS_4^{2-}. Structural characterization of $W(O)(S_2)_2(bpy)$ and $W(O)(S_2)_2(phen)$ 201
C. Simonnet-Jegat, N. Jourdan, F. Robert, C. Bois (Paris, France) and F. Sécheresse (Versailles, France)

Polyfunctional phosphine ligands
II. Iridium(I) complexes of the 7-diphenylphosphino-2,4-dimethyl-1,8-naphthyridine (dpnapy) ligand. X-ray crystal structure of $[\{Ir(cod)Cl\}_2(\mu\text{-dpnapy})]$ 209
S. Lo Schiavo (Vill. S. Agata, Messina, Italy), M. Grassi (Milan, Italy), G. De Munno (Arcavacata di Rende, Cosenza, Italy), F. Nicolò and G. Trosoldi (Vill. S. Agata, Messina, Italy)

Synthesis, spectral properties and redox behaviour of oxovanadium(IV) complexes with tetraaza[14]annulenes 217
D.L. Davies and A.J. Grist (Leicester, UK)

Isothiocyanato complexes of rhenium
II. Synthesis, characterization and structures of $ReN(NCS)_2(Me_2PhP)_3$ and $Re(NS)(NCS)_2(Me_2PhP)_3$ 223
R. Hübener, U. Abram and J. Strähle (Tübingen, Germany)

Cobalt(III) complexes with 2-acetyl- and 2-formylpyridine ^4N-methylthiosemicarbazones 229
A. Castineiras (Santiago de Compostela, Spain), D.X. West, H. Gebremedhin and T.J. Romack (Normal, IL, USA)

Notes

Geometrical and optical isomers of the dinickel complexes of two chiral ligands of the N,N'-disubstituted oxamide type: 1D and 2D NMR study 237
J.-P. Costes, G. Commenges, J.-M. Dominguez-Vera and J.-P. Laurent (Toulouse, France)

Pressure and concentration dependent formation of oligomers of tetrakis(*p*-methylphenylisocyanide)rhodium(I). 245
D. Trümbach, J. Kritzenberger and H. Yersin (Regensburg, Germany)

A novel amino acid-binding receptor based on weak non-covalent ligand–ligand interactions 249
K. Jitsukawa, T. Morioka, H. Masuda (Nagoya, Japan), H. Ogoshi (Kyoto, Japan) and H. Einaga (Nagoya, Japan)

Arylation of alkenes by the palladium(II) acetate–dialkyl sulfide system 253
Y. Fuchita, Y. Takeda and M. Taga (Fukuoka, Japan)

Synthesis, characterization and crystal structure of $(C_3H_5N_2)_2[Sn_2(NO_3)_4(\mu\text{-}OH)_2Me_4]$, a di-$\mu$-hydroxo-bridged compound with heptacoordinated tin(IV) 257
A. Sánchez González, A. Castiñeiras, J.S. Casas, J. Sordo (Santiago de Compostela, Spain) and U. Russo (Padua, Italy)

Synthesis, crystal structure and thermal stability of the $MgCl_2$ formamide adduct. 261
L. Pavanello, P. Visonà, A. Marigo, S. Bresadola and G. Valle (Padua, Italy)

Trimethylgallium based phosphinogallanes. Synthesis and molecular structure of $[Me_2Ga\text{–}P(SiMe_3)_2]_2$ 267
M.D.B. Dillingham, J.A. Burns, J. Byers-Hill, K.D. Gripper, W.T. Pennington and G.H. Robinson (Clemson, SC, USA)

Conference Calendar 271

Please note that Cumulative Author and Subject Indexes will be published annually. For 1994 they will appear at the end of Volume 227.

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.